Melco Conveyor Equipment (Pty) Ltd

Selected examples of Melco Installations

15 February 2011

A Member of the Rulmeca Group of Companies

ThyssenKruppRobins

Alcoa – Three Oaks Mine (USA)

- Details: **900mm Belt Width, 152mm Roller Diameter, 25mm Shaft/6205 Bearing – 19km Overland**
- Date: **2004**
- Roller Qty: **35,000**
- Tonnage: **1,200 tph**
- Speed: **7.7 m/s**

ThyssenKrupp (South Africa)

Catoca Diamond Mine (Angola)

- Details: **1350mm/1650mm Belt Width, 3/5 Roller Idlers, 32/25mm Shaft Diameter/6305 Bearings**
- Date: **2006-2008**
- Roller Qty: **14,000**
- Tonnage: **2,900 tph**
- Speed: **3.6 m/s**

ThyssenKrupp Robins

Foundation Coal Mine – Bel Ayre Coal Mine (USA)

- Details: **1800mm Belt Width, 152mm Roller Diameter, 35/30mm Shaft/6306 Bearing - Overland**
- Date: **2007**
- Roller Qty: **11,500**
- Tonnage: **5,500 tph**
- Speed: **5.6 m/s**

Sandvik Materials Handling (SA)

Lumwana Copper (Zambia)

- Detail: **1350mm Belt Width, 178mm Roller Diameter, 40mm Shaft/6308 Bearing – 6km Overland**
- Date: **2007**
- Roller Qty: **10,300**
- Tonnage: **4,000 tph**
- Speed: **5.2 m/s**

ThyssenKruppRobins

Rio Tinto - Jacobs Ranch Coal Mine (USA)

- Details: **2100mm Belt Width, 178mm Roller Diameter, 40mm Shaft/6308 Bearing – Overland**
- Date: **2007**
- Roller Qty: **10,000**
- Tonnage: **9,000 tph**
- Speed: **6.0 m/s**

ThyssenKrupp, Tekpro Projects, Roymec, Sandvik (SA)

Kumba Sishen Iron Ore Expansion Project (SA)

- Details: **900mm - 2400mm Belt Width, 152mm Roller Diameter, 40mm Shaft/6308 Bearing, 35mm Shaft/6307 Bearing, 30mm Shaft/6306 Bearing**
- Date: **2007**
- Roller Qty: **12,000**
- Tonnage: **6,720 tph**
- Speed: **3.1 m/s**

Ellton Conveyors

BHP Billiton - Crinum Coal Mine (Australia)

- Details: **1600mm Belt Width, 152mm Roller Diameter, 35/30mm Shaft/6306 Bearing – 6km Overland**
- Date: **2005**
- Roller Qty: **9,526**
- Tonnage: **4,000 tph**
- Speed: **4.5 m/s**

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TO WHOM IT MAY CONCERN

12-8-2009

Ellton Conveyors, as the sole representative in Australia of Melco Conveyor Equipment, South Africa, have supplied Melco Idlers to numerous mines in Australia.

Part of this supply has included the installation of Melco Idlers for an Overland Conveyor for the Crinum Coal Mine in Queensland, Australia. The specifications of this conveyor were 4000 TPH and with a belt speed of 4.5m/s.

The Melco supplied Idlers met and surpassed the client's specifications. The Idlers have been running successfully with no failures at this speed and tonnages.

Crinum Coal Mine has since ordered more Melco Idlers for other coal conveyors since they were satisfied with the performance and product.

Regards,
Paul Goodwin

ELLTON CONVEYORS

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Engineering Solutions in Materials Handling

Transnet Saldanha

Iron Ore Export Terminal (SA)

- Details: **1650mm Belt Width, 152mm and 178mm Roller Diameter, 30mm Shaft/6306 Bearing and 40mm Shaft/6308 Bearing**
- Date: **2006**
- Roller Qty: **9,000**
- Tonnage: **11,000 tph**
- Speed: **4.2 m/s**

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TRANSNET
port terminals

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MEMORANDUM

Attention	To whom it may concern
From	Project Manager: Nic Strydom
For information	
Date	12/08/2009
Subject	African Roller/Melco rollers at the Iorn Ore Terminal in Saldanha
Pages	01

➢ **African Roller/Melco rollers at the Iron Ore Terminal in Saldanha**

- This serves to confirm that the above company have supplied rollers for conveyors at the Iron Ore Terminal in Saldanha.
- The capacity of the belts is up to 11 000t/hr and speed is 4.2 m/s.

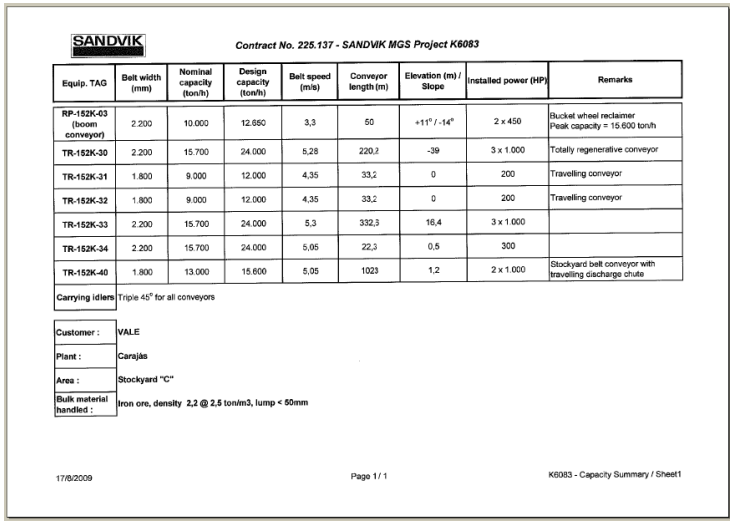
Engineering Manager
N Strydom

Date:

MGS Sandvik (Brazil)

CVRD (VALE) Carajas

- Details: **1800 & 2200mm Belt Width, 194mm, 45mm Shaft/6309 Bearing**
- Date: **2008**
- Roller Qty: **8,000**
- Tonnage: **9,000 to 15,700tph**
- Speed: **3.3 to 5.3 m/s**



SANDVIK

Contract No. 225.137 - SANDVIK MGS Project K6083

Equip. TAG	Belt width (mm)	Nominal capacity (ton/h)	Design capacity (ton/h)	Belt speed (m/s)	Conveyor length (m)	Elevation (m) / Slope	Installed power (HP)	Remarks
RP-152K-03 (boom conveyor)	2.200	10.000	12.650	3,3	50	+11° / -14°	2 x 450	Bucket wheel reclaimer Peak capacity = 15.600 ton/h
TR-152K-30	2.200	15.700	24.000	5,28	220,2	-39	3 x 1.000	Totally regenerative conveyor
TR-152K-31	1.800	9.000	12.000	4,35	33,2	0	200	Travelling conveyor
TR-152K-32	1.800	9.000	12.000	4,35	33,2	0	200	Travelling conveyor
TR-152K-33	2.200	15.700	24.000	5,3	332,3	16,4	3 x 1.000	
TR-152K-34	2.200	15.700	24.000	5,05	22,3	0,5	300	
TR-152K-40	1.800	13.000	15.600	5,05	1023	1,2	2 x 1.000	Stockyard belt conveyor with travelling discharge chute
Carrying idlers	Triple 45° for all conveyors							

Customer :	VALE
Plant :	Carajás
Area :	Stockyard "C"
Bulk material handled :	Iron ore, density 2,2 @ 2,5 ton/m3, lump < 50mm

17/6/2009 Page 1 / 1 K6083 - Capacity Summary / Sheet1

SANDVIK

CERTIFICATE

We hereby inform that **MELCO Conveyor Equipment** (Germiston – South Africa) has supplied idlers to SANDVIK MGS S/A, for belt conveyors running at tonnages between 9.000 and 15.700 tph (nominal capacity) and speeds between 3,3 and 5,3 m/s (refer to attached sheet for further details).

References :

- Project : K6083
- Final Customer : Cia. VALE do Rio Doce
- Plant : Carajás – stockyard "C"
- Purchase Order No. 263742
- Idlers shipping dates : July 2007 up to February 2008

We also confirm that idlers are working satisfactorily since conveyors start-up (between May 2008 and Aug 2008).

Luiz Cláudio Altopiedi
SANDVIK MGS S/A.
Project Manager

São Paulo, August 17th 2009

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